## (19) World Intellectual Property Organization

International Bureau



## ) (BOTA BUNGUN I BURING KUM BURIN BURI

(43) International Publication Date 9 June 2005 (09.06.2005)

**PCT** 

## (10) International Publication Number WO 2005/053361 A2

(51) International Patent Classification<sup>7</sup>:

H05B 3/00

(21) International Application Number:

PCT/US2004/039956

(22) International Filing Date:

24 November 2004 (24.11.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

10355043.7 25 November 2003 (25.11.2003)

- (71) Applicant (for all designated States except US): WAT-LOW ELECTRIC MANUFACTURING COMPANY [US/US]; 12001 Lackland Road, Saint Louis, MO 63146 (US).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): RUSSEGGER, Elias [AT/AT]; Obergau 302, A-5440 Golling (AT).
- (74) Agents: BURRIS, Kelly, K. et al.; Harness, Dickey & Pierce, P.L.C., 7700 Bonhomme Avenue, Suite 400, St. Louis, MO 63105 (US).

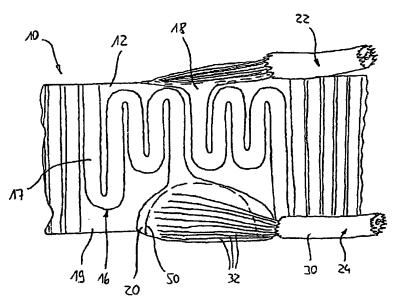
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Published:

 without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD FOR THE ATTACHMENT OF AN ELECTRICAL LEAD WIRE ON A SURFACE ELEMENT, AS WELL AS A HEATING ELEMENT, ESPECIALLY FOR A PLASTIC-SPRAYING DEVICE



(57) Abstract: An apparatus and methods for attaching electrical leads (22, 24) to a heating layer (16) of a heater are provided. An attachment material (50) is thermally sprayed over cords (32) of the electrical leads (22, 24), which are in contact with the heating layer (16) over a contact area (20). The attachment material (50) and the heating layer (16) are further thermally sprayed with a layer (52), which is an isolating material The thermal sprayed connection between the electrical leads (22, 24) and the heating layer (16) thus provides more intimate contact and an improved electrical connection.

